

## CLAIMS

What is claimed is:

1. A composition comprising Competence Stimulating Peptide (CSP) and sucrose.
2. The composition according to claim 1, further comprising at least one substance selected from the group consisting of an orally acceptable carrier, an anti-caries agent, and mixtures thereof.
3. The composition according to claim 1, further comprising an orally acceptable carrier and an anti-caries agent.
4. The composition according to claim 1, wherein the CSP in the composition is present in an amount from about 0.05% to about 30% w/w.
5. The composition according to claim 1, wherein the composition is in a form selected from the group consisting of a mouthwash solution, an abrasive dentifrice gel, a chewing gum, a nonabrasive dentifrice gel, a nonabrasive gel composition, and a soft drink.
6. The composition according to claim 2, wherein the anti-caries agent is selected from the group consisting of water insoluble noncationic antimicrobial agents, non-steroidal anti-inflammatory drugs, fluoride reagents, histidine-rich polypeptides, casein, urea, calcium lactate, calcium glycerophosphate, non-immunogenic amino acid segments of proline-rich proteins, monoclonal antibodies of *S. mutans*.
7. A method of treatment or prophylaxis of a condition associated with the attachment of *S. mutans* to teeth of a subject, comprising the step of administering to the subject a composition containing CSP in an amount effective to reduce the attachment of *S. mutans* to teeth.

8. The method of claim 7, wherein the composition further comprises at least one substance selected from a group consisting of sucrose, an orally acceptable carrier, an anti-caries agent, and mixtures thereof.

9. The method of claim 7, wherein the composition further comprises sucrose.

10. The method of claim 7, wherein the composition further comprises sucrose, an orally acceptable carrier, and an anti-caries agent.

11. The method of claim 7, wherein the CSP in the composition is present in an amount from about 0.05% to about 30% w/w.

12. The method of claim 7, wherein the condition is selected from the group consisting of dental caries or endocarditis.

13. The method of claim 8, wherein the anti-caries agent is selected from the group consisting of water insoluble noncationic antimicrobial agents, non-steroidal anti-inflammatory drugs, fluoride reagents, histidine-rich polypeptides, casein, urea, calcium lactate, calcium glycerophosphate, non-immunogenic amino acid segments of proline-rich proteins, monoclonal antibodies of *S. mutans*.

14. A medicament for the treatment or prophylaxis of a condition associated with the attachment of *S. mutans* to teeth, comprising CSP in an amount effective to reduce the attachment of *S. mutans* to teeth.

15. The medicament of claim 14, wherein the medicament further comprises at least one substance selected from a group consisting of sucrose, an orally acceptable carrier, an anti-caries agent, and mixtures thereof.

16. The medicament of claim 14, wherein the medicament further comprises sucrose.

17. The medicament of claim 14, wherein the medicament further comprises sucrose, an orally acceptable carrier, and an anti-caries agent.

18. The medicament of claim 14, wherein the CSP is present in an amount between about 0.05% to about 30% w/w.

19. The medicament of claim 14, wherein the condition is selected from the group consisting of dental caries or endocarditis.

20. The medicament of claim 15, wherein the anti-caries agent is selected from the group consisting of water insoluble noncationic antimicrobial agents, non-steroidal anti-inflammatory drugs, fluoride reagents, histidine-rich polypeptides, casein, urea, calcium lactate, calcium glycerophosphate, non-immunogenic amino acid segments of proline-rich proteins, monoclonal antibodies of *S. mutans*.